

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro Microcloud A+ Server AS-3015MR-H8TNR

3U 8-Node MicroCloud with single-width GPU support

SKU AS-3015MR-H8TNR

3U

AM5

Supermicro



FORM FACTOR

3U

MAX POWER (BASE)

386 W

HEAT OUTPUT

1,317 BTU/h

PRICE

from €19,980

CONFIGURE & QUOTE ONLINE

serverinvest.com/product/as-3015mr-h8tnr

01 Product overview

The Supermicro AS-3015MR-H8TNR is a 3U MicroCloud Server built on AMD EPYC 4004/4005 with up to 192 GB of memory in 4 DIMM slots.

3U 8-Node MicroCloud with single-width GPU support.

The chassis accepts up to 1 GPU accelerators for AI, rendering and HPC workloads.

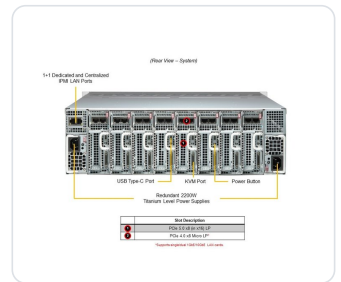
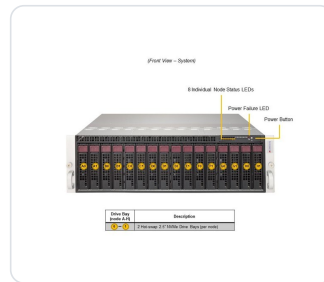
ServerInvest configures every Gold Series AS -3015MR-H8TNR to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- AMD EPYC 4004/4005
- Up to 192 GB memory · 4 DIMM slots
- Total 2 bays 2 front fixed 3.5"/2.5" NVMe/SAS*/SATA* drive bays
- Up to 1 GPUs
- Power: 2x 2200W
- Networking: No NIC option supported

KEY SPECIFICATIONS

Form factor	3U
Processor	AMD Ryzen 7000
Socket	AM5
Memory	4 DIMM slots, up to 192 GB
Drive bays	2 (2 NVMe)
GPU	Up to 1 GPUs
Power supply	2× 2200 W
Typical power draw	570 W
Networking	No NIC option supported
Dimensions (W×H×D)	437 × 133 mm



02 Base configuration

Components included in the listed base price — every part can be changed in the online configurator

COMPONENT	DESCRIPTION	QTY
Base system	Supermicro Microcloud A+ Server AS-3015MR-H8TNR	1
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

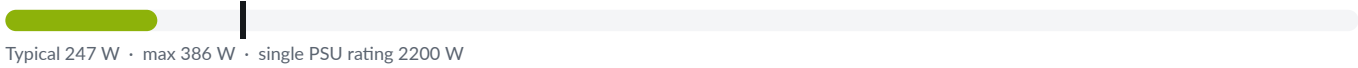
Base configuration from

€19,980
excl. VAT

03
Power & thermal

Calculated for the base configuration

IDLE 110 W	TYPICAL 247 W	MAXIMUM 386 W	HEAT (MAX) 1,317 BTU/h	COOLING 0.4 kW	PSU LOAD 18%
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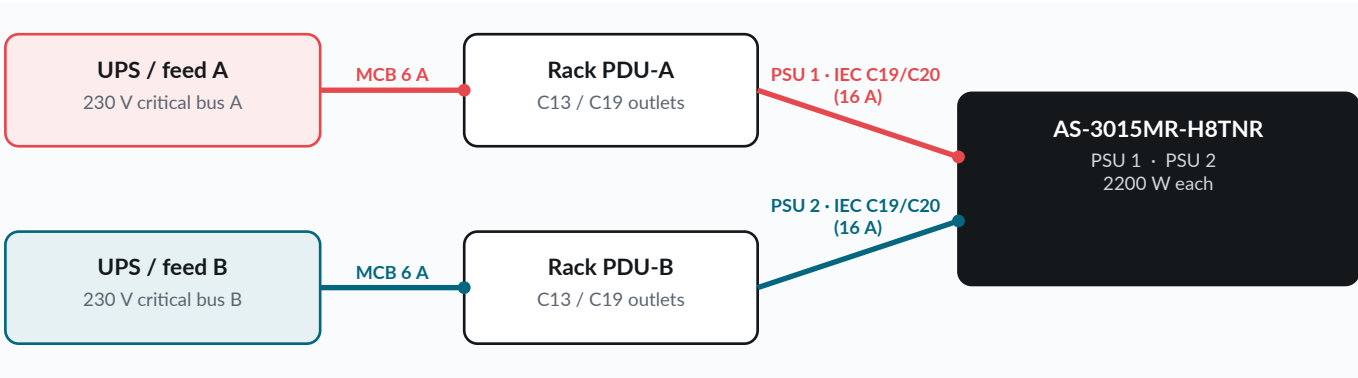
Annual IT energy (24/7)	1,804 kWh
Annual facility energy (PUE 1.5)	2,706 kWh
Annual energy cost	€361 IT · €541 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.70 t (grid factor 0.26 kg/kWh)
Power supplies	2× 2200 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	72 W	112 W	160 W
2× Memory 16 GB DIMM	6 W	10 W	18 W
CPU (base configuration)	25 W	110 W	185 W

DC loads converted to wall power at 94% PSU efficiency; typical load assumed 70% of the time. Engineering estimates — confirm with the manufacturer's power calculator for critical designs.

04
Power connection diagram

Dual-feed (A/B) connection for redundant power supplies



- Connect PSU 1 to PDU-A and PSU 2 to PDU-B (independent feeds) using IEC C19/C20 (16 A) power cords.
- Maximum current per feed: 1.8 A at 230 V — each feed must be able to carry the full load if the other fails.
- Recommended protection per PDU circuit: MCB 6 A, curve C; RCD according to local regulations.
- Heat to remove at full load: 386 W = 1,317 BTU/h (0.4 kW).

05
Full specifications

MOTHERBOARD	
	Super H13SRD-F
PROCESSOR (PER NODE)	
CPU	Single Socket AM5 (LGA-1718) AMD EPYC 4005/4004 Series Processor
Core Count	Up to 16C/32T; Up to 128MB Cache

Note

Supports 65W - 200W TDP CPUs (Air Cooled)*

*Air Cooled CPUs with TDP over 120W only supported under specific conditions. Contact a Supermicro representative for details.

GPU (PER NODE)

Max GPU Count	Up to 1 single-width GPU
Supported GPU	NVIDIA PCIe: A2, L4, T4 View GPU Options

SYSTEM MEMORY (PER NODE)

Memory	Slot Count: 4 DIMM slots Max Memory (1DPC): Up to 192GB 5600MT/s ECC/non-ECC DDR5 UDIMM Max Memory (2DPC): Up to 192GB 3600MT/s ECC/non-ECC DDR5 UDIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES (PER NODE)

NVMe	NVMe; (Native) View NVMe Options
Chipset	AMD Knoll - Integrated I/O Controller Hub
Network Connectivity	No NIC option supported View AOC Options

INPUT / OUTPUT (PER NODE)

USB	2 USB 2.0 ports 1 Type-C port (front)
Video	1 port
TPM	1 TPM Onboard/port 80

SYSTEM BIOS

BIOS Type	AMI 32MB SPI Flash EEPROM
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MANAGEMENT

Software	SuperCloud Composer (SCC) Supermicro Server Manager (SSM) Supermicro Update Manager (SUM) Supermicro SuperDoctor 5 (SD5) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!
Power configurations	Power-on mode for AC power recovery ACPI 6.0 Power Management

PC HEALTH MONITORING

CPU	3-Phase-switching voltage regulator with auto-sense from 0.5V-2.3V Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.
Fan	Fan speed control, Dual Cooling Zone
Temperature	Monitoring for CPU and chassis environment

CERTIFICATIONS

Operating Systems	Grado: Windows Server 2022, Windows Server 2025 Raphael: Windows Server 2022, Windows Server 2025 Ryzen: RHEL 9.3, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	3U Rackmount
Model	CSE-938NH-R2K20BP2

DIMENSIONS AND WEIGHT

Height	5.21" (132 mm)
Width	17.26" (438 mm)
Depth	23.2" (589 mm)
Package	11.65" (H) x 26.26" (W) x 34" (D)
Weight	Gross Weight: 88 lbs (39.92 kg) Net Weight: 62.2 lbs (28.21 kg)
Available Color	N/A

FRONT PANEL

Buttons	Power On/Off
LED	8 Individual Node Status Indicators Power Failure

EXPANSION SLOTS (PER NODE)

PCI-Express (PCIe) Configuration	Default 1 PCIe 5.0 x8 (in x16) LP slot 1 PCIe 5.0 x8 MicroLP slot View AOC Options
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DRIVE BAYS / STORAGE (PER NODE)

Drive Bays Configuration	Default: Total 2 bays 2 front fixed 3.5"/2.5" NVMe/SAS*/SATA* drive bays (*SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) View NVMe Options View Drive Options
M.2	1 M.2 NVMe slot (M-key 2280/22110) View M.2 Options

SYSTEM COOLING

Fans	Up to 4 Heavy Duty 8cm Fan(s)
Air Shroud	8 Air Shrouds

POWER SUPPLY

2x 2200W
2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)
76 x 40 x 336 mm

OPERATING ENVIRONMENT

RoHS

RoHS Compliant

Environmental Spec.

Operating Temperature: 10°C to 35°C (50°F to 95°F)
Non-operating Temperature: -30°C to 60°C (-22°F to 140°F)
Operating Relative Humidity: 8% to 80% (non-condensing)
Non-operating Relative Humidity: 8% to 90% (non-condensing)

06 Built, tested & supported by ServerInvest

Engineered configuration

Every option validated for socket, memory channels, PCIe lanes, power and cooling.

48-hour burn-in

Assembled, firmware-updated and stress-tested before it leaves our workshop.

3-year warranty

Standard on every system, with on-site next-business-day upgrades available.

Rack-ready delivery

Rails, cable management and labelling included — delivered across Europe.



Ready to order or need changes?

Configure this system online or talk to a solutions engineer — we reply within one business day.

office@serverinvest.com

Official manufacturer datasheet: serverinvest.com/product/as-3015mr-h8tnr/datasheet/manufacture

